

Attorney Docket No. 300.1138

Certificate

FEB 0 6 2009

Correction

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTENTION

BRANCH

CERTIFICATE OF CORRECTION

In re Patent Application of:

Mitsutoshi HIGASHI

Application No.: 10/706,912

Confirmation No.: 7653

Filed: November 14, 2003

U.S. Patent No.: 7,456,497

Issued: November 25, 2008

For: ELECTRONIC DEVICES AND ITS PRODUCTION METHODS

REQUEST FOR CERTIFICATE OF CORRECTION

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Patentee respectfully requests that a Certificate of Correction be issued in the subject patent, pursuant to 35 USC § 254 and 37 CFR § 1.322, to correct the errors shown on the attached Form PTO-1050. For the convenience of the Patent and Trademark Office, attached is a photocopy of an Office Communication with a mailing date of October 18, 2007, on which prior art references cited on Form PTO-892 of that Action and incorrectly not included on the Title page of the subject Issued Patent No. 7,456,497 have been highlighted. With regard to the correction at column 22, Line 4, the same is a result of an inadvertent typographical error --e.g., compare with the use of "MEMS" in the original specification at page 1, lines 1, 17, 18, 19, 21 and 34 and the successive pages, through page 40 lines 1 and 17, et al.. A check in the amount of \$100 to cover the cost of the Certificate is attached.

One or more of the errors shown on the attached Form PTO-1050 is or are within the responsibility of the applicant; each thereof is of a clerical or typographical nature or of minor character and occurred in good faith, and the correction thereof is consistent with the prosecution record.

> Respectfully submitted, STAAS & HALSEY LLP

Date: 7eb. 2, 2009

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Bv: H. J. Staas

Registration No. 22,010

02/05/2009 JADDO1

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. (Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO: 7,456,497

DATED: November 25, 2008

INVENTOR(S): Mitsutoshi HIGASHI

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Title Page, Column1 (Under U	I.S. PATENT DOCUMENTS), under
	Higashi257/678"
insert	-
6,335,224 B1 * 1/2002	Peterson et al438/114
6,443,179 B1 * 9/2002	Benavides et al137/454.2
6,500,760 B1 * 12/2002	Peterson et al438/684
6,489,670 B1 * 12/2002	Peterson et al257/686
6,495,895 B1 * 12/2002	Peterson et al257/434
6,531,341 B1 * 3/2003	Peterson et al438/123
6,538,312 B1 * 3/2003	Peterson et al257/680
6,548,895 B1 * 4/2003	Benavides et al257/712
2003/0230798 A1 * 12/2003	Lin et al257/704
6,661,084 B1 * 12/2003	Peterson et al257/680
6,674,159 B1 * 1/2004	Peterson et al257/680
2004/0016995 A1 * 1/2004	Kuo et al257/678
6,809,413 B1 * 10/2004	Peterson et al257/680
6,821,819 B1 * 11/2004	Benavides et al438/122
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2005/0046016 A1 * 3/2005	Gilleo257/713
6,953,985 B2 * 10/2005	Lin et al257/659
6,956,283 B1 * 10/2005	Peterson257/680

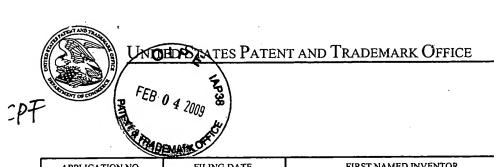
Column 16, Line 42, change "like." to --like--.

Column 22, Line 4, change "SEMS" to --MEMS--.

MAILING ADDRESS OF SENDER: STAAS & HALSEY LLP 1201 New York Avenue, N.W. 7th Floor Washington, DC 20005

PATENT NO. 7,456,497

No. of add'l copies @ 304 per page



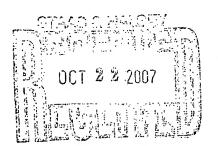
UNITED STATES DEPARTMENT OF ZEMMERCE United States Parent and Grad Fland Office Address: COMMISSIONER FOR ATE US P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

	BMATS.O.			
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,912	11/14/2003	Mitsutoshi Higashi	300.1138	7653
	7590 10/18/2007		EXAM	INER
STAAS & HALSEY LLP SUITE 700			SCHILLINGER, LAURA M	
1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005	ART UNIT		PAPER NUMBER	
	.,, =		2813	
			MAIL DATE	DELIVERY MODE
			10/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

COPIES OF REFERENCES ORDERED



,	Application No.	Applicant(s)
Office Action Commence	10/706,912	HIGASHI, MITSUT) SED
Office Action Summary	Examiner	Art Unit
	Laura M. Schillinger	2813
The MAILING DATE of this communication appeariod for Reply	pears on the cover sheet wit	h the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 136(a). In no event, however, may a re will apply and will expire SIX (6) MONT e, cause the application to become ABA	CATION. ply be timely filed "HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 13 A	ugust 2007	
	s action is non-final.	
3) Since this application is in condition for allowa		ers, prosecution as to the merits is
closed in accordance with the practice under I	•	
	an pante quayio, tees ora-	.,,
Disposition of Claims		
4) Claim(s) 29-41 is/are pending in the application	n.	
4a) Of the above claim(s) 35-41 is/are withdraw	wn from consideration.	•
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>29-34</u> is/are rejected.	•	
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/o	or election requirement.	
Application Papers		
9) The specification is objected to by the Examine	ar	
10) The drawing(s) filed on is/are: a) acc		v the Examiner
Applicant may not request that any objection to the	· · · · · · · · · · · · · · · · · · ·	
Replacement drawing sheet(s) including the correct		
11) The oath or declaration is objected to by the Ex		
The dath of decidation is objected to by the 22	tammer. Note the attached	Office 7 (0.1017 01 101111 7 0 102).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Ap rity documents have been r u (PCT Rule 17.2(a)).	plication No eceived in this National Stage
tookmont/s)		
Attachment(s) Notice of References Cited (PTO-892)	4) Interview St	ımmary (PTO-413)
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)	/Mail Date formal Patent Application FB _ 6 2003

Art Unit: 2813



DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of claims 29-34 in the reply filed on 8/13/07 is acknowledged. The traversal is on the ground(s) that the minor distinctions would not constitute a serious burden on the examiner. This is not found persuasive because Applicant may properly traverse a species requirement by going on the record and stating that the mutually exclusive characteristics are obvious variants and therefore if one specie is found the others would be obvious in view of the prior art. Applicant has not done so- therefore the mutually exclusive characteristics are considered patentably distinct and the search would be burdensome.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 29-324 are rejected under 35 U.S.C. 102(e) as being anticipated by Kuo et al (US 20040016995 A1).

Kuo teaches the following claimed limitations as cited below:

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29. (New) An electronic device having mounted thereon a microelectromechanical system (MEMS) element comprising a micromachine component and an electronic component for

operation of said micromachine component formed on a substrate of said MEMS element, in

which:

a lid having wiring patterns is bonded to the substrate of said MEMS element covering an active

surface of said substrate (Fig.5 (480/450)),

an operating space for said micromachine component is defined by said substrate and said lid

(where element 315 is located), electrodes of said MEMS element (350) and wiring patterns of

said lid (430/460/410) are electrically connected at a bonded part of said substrate and said lid

(510), and

a sealing portion is provided between said MEMS element and said lid surrounding an outside of

said bonded part [0101].

30. (New) The electronic device as set forth in claim 29, in which said bonded part is an

ultrasonic bonded part of said substrate and said lid [0088].

31. (New) The electronic device as set forth in claim 29, in which said substrate and/or said lid

further have a cavity at the side of said operating space Fig.5- outside sealing solder ball has

cavity between itself and 510).

Art Unit: 2813

32. (New) The electronic device as set forth in claim 29, in which said sealing portion comprises

a continuous ultrasonic bonded part formed in contact with an outer periphery of an operating

space side of said substrate and said lid without interruption (Fig.5).

33. (New) The electronic device as set forth in claim 29, in which said substrate and/or said lid

further comprise conductor-filled vias formed passing through said substrate and/or said lid in a

thickness direction (Fig.5).

34. (New) The electronic device as set forth in claim 29, in which said sealing portion comprises

a sealing resin [0101].

Response to Arguments

Applicant's arguments with respect to the above claims have been considered but are

moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Laura M. Schillinger whose telephone number is (571) 272-1697.

The examiner can normally be reached on M-T, R-F 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Carl W. Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.



Art Unit: 2813

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Laura M Schillinger Primary Examiner Art Unit 2813

10/7/07

Notice of References Cited

Application/Control No.

Laura M. Schillinger

10/706,912

Art Unit

Applicants Paten Reexamination HIGASHU MIT

Examiner

2813

Page 1 of 2

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-6,335,224 B1	01-2002	Peterson et al.	438/114
*	В	US-6,384,473 B1	05-2002	Peterson et al.	257/680
*	С	US-6,443,179 B1	09-2002	Benavides et al.	137/454.2
*	D;	, US-6,500,760 B1	12-2002	Peterson et al.	438/684
*	Е	US-6,489,670 B1	12-2002	Peterson et al.	257/686
*	F	US-6,495,895 B1	12-2002	Peterson et al.	257/434
*	G	US-6,531,341 B1	03-2003	Peterson et al.	438/123
*	Н	US-6,538,312 B1	03-2003	Peterson et al.	257/680
*	0	US-6,548,895 B1	04-2003	Benavides et al.	257/712
*	J	US-2003/0230798 A1	12-2003	Lin et al.	257/704
*	K	US-6,661,084 B1	12-2003	Peterson et al.	257/680
*	L	US-6,674,159 B1	01-2004	Peterson et al.	257/680
*	М	US-2004/0016995 A1	01-2004	Kuo et al.	257/678

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NON-PATENT DOCUMENTS

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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Notice of References Cited

Application/Control No.

10/706,912

Examiner

Laura M. Schillinger

Applicant(s) fraten Under Reexemination HIGASHI, MISSET CSHI

Page 2 of 2

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	ĺΑ	US-6,809,413 B1	10-2004	Peterson et al.	257/680 [°]
*	В	US-6,821,819 B1	11-2004	Benavides et al.	438/122
*	С	US-6,844,623 B1	01-2005	Peterson et al.	257/723
*	´D	US-6,858,943 B1	02-2005	Peterson et al.	257/784
*	E	US-2005/0046016 A1	03-2005	Gilleo, Ken	257/713
*	F	US-2005/0167795 A1	08-2005	Higashi, Mitsutoshi	257/678
*	(G	US-6,953,985 B2	10-2005	Lin et al.	257/659
*	н	US-6,956,283 B1	10-2005	Peterson, Kenneth A.	257/680
	ı	US-		COPIES OF REFERENCES UNDESCED	
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FOREIGN PATENT DOCUMENTS

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